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CCS J15



**NATIONAL STANDARD OF THE  
PEOPLE'S REPUBLIC OF CHINA**

**GB/T 14525-2010**

Replacing GB/T 14525-1993

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**General specification for corrugated metal hose assemblies**

波纹金属软管通用技术条件

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### Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules. This standard replaces GB/T 14525-1993 "corrugated metal hose general technical conditions." This standard and GB/T 14525-1993 compared to the main changes are as follows:

- Increasing the reinforced bellows, ribbon nets, fittings and flexible terms and definitions section length;
- Increasing the nominal size DN700 and DN800 hose design pressure  $P_s$  by the scope expanded to 32MPa 35MPa, and Adjust the hose Common Specifications;
- Increased hose classification;
- Adjust the common material grade hose, increasing the control of old and new grades of material;
- Increased material, welding and forming requirements;
- Adjust the non-destructive testing requirements and methods for welds;
- Modify the terms of the pressure test, the lower pressure hoses instead of allowing the use of air pressure test pressure test, pressure test pressure 1.15 times the design pressure  $P_s$ ;
- Increased hose static bending performance requirements and test methods, increase the weld non-destructive testing and static bending test items, and clearly A static bending and burst test, keep the total number of type test specimen 3 unchanged;
- Adjust the number of dynamic bending hose U-table, part of the original 7000 increased to 8,000, a clear swing bending times, According to ISO 10380.2003 modified swing bending test requirements;
- Proposed minimum length requirement of individual static bending and individual specimens and blasting formulas;
- The "normal production every three years" type test one of the conditions to adjust to

"normal production every four years", and pressure piping system components Making license is valid for four years consistent;

--- Modify the informative appendix "hose maximum allowable working pressure" (see Appendix A);

## 1 Scope

GB/T 14525-2010 is the Chinese national standard on general specification for corrugated metal hose assemblies, in the field of fluid systems and general-purpose components. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 10 January 2011 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 October 2011. Classification: ICS 23.040.70, CCS J15. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies the terms and definitions corrugated metal hose, classification, requirements, test methods, inspection rules, marking, packaging, transport and Storage. This standard applies to the piping system to compensate for displacement and misalignment, absorb vibration and reduce noise used corrugated metal hose (with Hereinafter referred to as hose).

## 2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 191 Packaging - Pictorial signs

GB/T 699 high-quality carbon structural steel

GB/T 700 carbon structural steel

GB/T 1220 stainless steel rods

GB/T 3089 thin-walled seamless stainless steel pole

GB/T 3280 stainless steel cold-rolled steel sheet and strip

GB/T 3323 metal fusion welded joints radiography

GB/T 4226 stainless steel cold steel bars

GB/T 4240 stainless steel wire

GB/T 12230 Universal valves stainless steel castings

JB/T 4730.2 Non-destructive testing of pressure equipments - Part 2. ray detector

JB/T 4730.5 Non-destructive testing of pressure equipments - Part 5. penetrant testing

### 3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 Tube Tubularblank There are no longitudinal welds or weld metal pipe for the manufacture of bellows.

3.2 Bellows corrugatedtube Bus corrugated tubular housing.

3.3 Spiral bellows helicalcorrugatedtube Corrugated spirally corrugated tube (see Figure 1).